

## CLAIMS

1. A conveyor system comprising:  
2 a conveying belt trained around guide rollers for movement in a travel path;  
a first roller which is mounted in an operative position on a support to bear  
4 against the conveying belt; and  
a roller support system comprising at least one wall which confines  
6 downward movement of the first roller in the event that the first roller becomes  
disengaged from the operative position,  
8 the roller support system defining at least one opening through which  
foreign matter separated from the first roller can pass.

2. The conveyor system according to claim 1 wherein the roller support  
2 system defines an upwardly opening trough-shaped receptacle for the first roller.

3. The conveyor system according to claim 2 wherein the trough-  
2 shaped receptacle has a top and bottom and the at least one opening is defined  
toward the bottom of the receptacle so that the at least one wall guides foreign  
4 matter separated from the first roller downwardly towards the at least one opening.

2           4.       The conveyor system according to claim 1 wherein the first roller has  
a first axis and the roller support system comprises a first blade that is movable  
around a second axis that is substantially parallel to the first axis.

2           5.       The conveyor system according to claim 4 wherein the roller support  
system comprises a second blade that is movable independently of the first blade  
around a third axis that is substantially parallel to the first axis.

2           6.       The conveyor system according to claim 5 wherein the first blade has  
a first free end, the second blade has a first free end, and the at least one opening  
is defined between the first free ends of the first and second blades.

2           7.       The conveyor system according to claim 1 wherein the roller support  
system comprises a first blade and the first blade has a first free end that bears  
against the first roller.

2           8.       The conveyor system according to claim 7 wherein the first blade has  
a second free end that bears against the conveying belt.

2 9. The conveyor system according to claim 8 wherein the first roller has  
a first axis and the first blade is pivotable around a second axis that is parallel to  
the first axis.

2 10. The conveyor system according to claim 9 wherein the first blade has  
a concave surface opening toward the first axis.

2 11. The conveyor system according to claim 9 wherein the second axis  
resides between the first and second free ends of the first blade.

2 12. The conveyor system according to claim 9 wherein the first blade has  
a thickness that diminishes from the second axis toward the first free end of the  
first blade.

2 13. The conveyor system according to claim 8 wherein the first roller has  
a first axis, the first blade is movable around a second axis that is parallel to the  
first axis, and the first blade has a thickness that diminishes from the second axis  
4 toward the second free end of the first blade.

2           14.     The conveyor system according to claim 1 wherein the travel path  
includes an underside path portion and the first roller bears against the conveying  
belt at the underside path portion.

2           15.     The conveyor system according to claim 1 wherein the travel path  
includes a conveying path portion and the first roller bears against the conveying  
path portion.

2           16.     The conveyor system according to claim 1 wherein the roller support  
system comprises first and second independent blades.

2           17.     The conveyor system according to claim 16 wherein the at least one  
wall is defined by the first and second blades and the first and second blades  
cooperatively define a trough-shaped receptacle for the first roller.

2           18.     The conveyor system according to claim 17 wherein the at least one  
opening is defined between the first and second blades.

19. The conveyor system according to claim 1 wherein the roller support  
2 system bears against the conveying belt.

20. The conveyor system according to claim 1 wherein the at least one  
2 wall comprises a urethane material.

21. A conveyor system comprising:  
2 a conveying belt trained around guide rollers for movement in a travel path;  
a first roller which is mounted in an operative position on a support to bear  
4 against the conveying belt; and  
a first blade that bears against the first roller and the conveying belt to strip  
6 foreign matter from the first roller and conveying belt.

22. The conveyor system according to claim 21 wherein the first roller  
2 has a first axis and the first blade is movable around a second axis that is  
substantially parallel to the first axis.

23. The conveyor system according to claim 22 wherein the first blade  
2 has a first free end that bears against the first roller and a second free end that

bears against the conveying belt and the second axis resides between the first and  
4 second free ends.

24. The conveyor system according to claim 23 wherein the first blade  
2 has a thickness that diminishes from the second axis towards the first free end of  
the first blade.

25. The conveyor system according to claim 24 wherein the first blade  
2 has a thickness that diminishes from the second axis toward the second free end  
of the first blade.

26. The conveyor system according to claim 21 wherein the first roller  
2 has a first axis and the first blade has a concave surface opening toward the first  
axis.

27. The conveyor system according to claim 21 wherein the first blade  
2 comprises a urethane material.

28. A cleaning blade for bearing simultaneously against a roller and a  
2 conveying belt which is moving in a travel path to strip foreign matter therefrom,  
the cleaning blade comprising:

4 a body having a mounting portion which is attachable to a support, a first  
portion projecting in a first direction away from the mounting portion, and a second  
6 portion projecting away from the mounting portion generally oppositely to the first  
direction,

8 the first portion defining a first free end to engage a roller,

the second portion defining a second free end to engage a conveying belt.

29. The cleaning blade according to claim 28 wherein the mounting  
2 portion has an axis about which the cleaning blade can be pivotably mounted.

30. The cleaning blade according to claim 28 wherein the cleaning blade  
2 has a thickness that diminishes from the mounting portion toward the first free end  
of the cleaning blade.

2           31.     The cleaning blade according to claim 30 wherein the cleaning blade  
has a thickness that diminishes from the mounting portion toward the second free  
end of the cleaning blade.

2           32.     The cleaning blade according to claim 29 wherein the cleaning blade  
has a concave surface.

2           33.     The cleaning blade according to claim 28 wherein the cleaning blade  
comprises a urethane material.